

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product names: Maxicrop Mosskiller and Lawn Tonic (MAPP 18540 PCS 05150)
Maxicrop Professional Moss Killer & Conditioner (MAPP18514 PCS 05149)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use as a professional turf treatment.

1.3. Details of the supplier of the safety data sheet

Company: Valagro UK Limited
P.O. Box 6027, Corby
Northants
NN17 1ZH
United Kingdom

Telephone: 08700 115 117
Fax: 08700 115 118
Email info.uk@valagro.com

1.4. Emergency telephone number

07801 030436

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Product not classified

2.2. Label elements

According to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Not required as product is unclassified

According to Regulation (EC) No 1107/2009

To avoid risk to man and the environment, comply with the instructions for use


2.3. Other hazards

Mixture is not classified as PBT or vPvB.
None known

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	Phrase(s)	Concentrations [%]
Ferrous sulphate heptahydrate	7720-78-7/ 231-753-5 CAS number for heptahydrate is: 7782-63-0	Index number: 026-003-01-4 REACH number: 01-2119513203-57-xxxx	According to 1272/2008: GHS07 	According to 1272/2008: Warning Acute Tox 4 (Oral). H302 Skin Irrit. 2. H315 Eye irrit.2. H319 Specific Concentration Limit: Skin Irrit.2; H315: C ≥ 25 %	29.5 – 32.0

Hazard information not displayed in full in sections 2.0 or 3.0 is given in section 16.0

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

If inhaled

Remove the person to fresh air. Seek medical attention if irritation occurs.

In case of skin contact

If skin contact occurs wash the affected area with soap and water.

In case of eye contact

In the event of eye contact irrigate thoroughly with water.

If swallowed

Do not induce vomiting. Give water to drink. Seek medical advice if symptoms present.

4.2. Most important symptoms and effects, both acute and delayed

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Firefighting measures

5.1. Extinguishing media

The product is not flammable. Use extinguishing media suited to other materials in the vicinity.

5.2. Special hazards arising from the substance or mixture

Decomposes to give oxides of carbon and nitrogen and hydrogen chloride.

5.3. Advice for firefighters

Wear Self-contained breathing apparatus for fire-fighting if necessary

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable gloves and appropriate protective clothing.

6.2. Environmental precautions

Do not contaminate surface water or ditches with chemicals or used container. Inform the appropriate authority in the event of accidental water course contamination.

6.3. Methods and material for containment and cleaning up

Wash down spillages promptly, taking care to avoid the contamination of watercourses and drains.

6.4. Reference to other sections

Refer to section 4 for first aid measures and section 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash hands and exposed skin before meals and after use. Wear gloves when handling the products over long periods of time. Do not eat or drink when using this product. Do not spray onto surfaces other than grass to avoid staining.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container, reseal container after use. Keep out of the reach of children. Store out of direct sunlight above 0 deg C and below 30 deg C.

7.3. Specific end use(s)

Use as a professional turf treatment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Current workplace exposure limits assigned to individual components according to HSE document EH40/2005

Substance	CAS number	Workplace Exposure Limit		Comments
		Long-term exposure limit (8-hr TWA reference period)	Short-term exposure limit (15 minute reference period)	
				The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances

		ppm	mg.m ⁻³	ppm	mg.m ⁻³	identified in IOELV Directives*
Iron Salts	-	-	1.0	-	2.0	-

8.2. Exposure controls

Engineering Measures:

Handle in accordance with good industrial hygiene and safety practice.

Respiratory Equipment:

Not required under prescribed application.

Hand Protection/Skin Protection:

Wear gloves complying with EN420.

Eye Protection:

Wear safety glasses complying with EN166 as a minimum.

Hygiene Measures:

Wash hands before breaks and at the end of the day

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Clear wine red liquid
Odour:	Slightly sweet
Odour threshold:	no information available
pH:	3.0-3.5 (1% Dilutions in water)
Melting point/freezing point:	no information available
Initial boiling point and boiling range:	no information available
Flash point:	>100°C
Evaporation rate:	no information available
Flammability:	no information available
Upper/lower flammability or explosive limits:	no information available
Vapour pressure:	no information available
Vapour density:	no information available
Relative density:	1.20-1.21 g/ml
Solubility:	no information available
Partition coefficient: n-octanol/water:	no information available
Auto-ignition temperature:	No ignition
Decomposition temperature:	no information available
Viscosity:	Newtonian fluid 2.83 MPas @20°C
Explosive properties:	No explosive risk
Oxidising properties:	No oxidising properties

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known reactivity

10.2. Chemical stability

Stable under normal storage and use conditions.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Avoid extremes of temperature

10.5. Incompatible materials

Oxidising agents

10.6. Hazardous decomposition products

Under fire conditions, hazardous fumes will be present.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity:**

Data for Ferrous Sulphate Heptahydrate;

Oral - LD50 300-2000 mg/kg bw

Dermal - LD50 >2000 mg/kg bw

Inhalation-No data

Skin corrosion/irritation:

Based on testing of a similar formulation, the mixture is not classified as a skin irritant

Serious eye damage/irritation:

Based on testing of a similar formulation, the mixture is not classified as an eye irritant

Respiratory or skin sensitisation:

Based on formulation components, the mixture is not classified as a sensitiser

Germ cell mutagenicity:

Based on formulation components, the mixture is not classified as mutagenic

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity:

Based on formulation components, the mixture is not classified for reproductive toxicity

Aspiration hazard:

Based on formulation components, the mixture is not classified for aspiration hazard

SECTION 12: Ecological information**12.1. Toxicity**

Based on formulation components, the mixture is not classified for environmental hazard

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Do not empty into drains or water courses. Dispose of all material and its container in a safe way.
Wash out container thoroughly and dispose of safely

SECTION 14: Transport information**14.1. UN number**

Mixture is not classified for transportation

14.2. UN proper shipping name

Mixture is not classified for transportation

14.3. Transport hazard class(es)

Mixture is not classified for transportation

14.4. Packing group

Mixture is not classified for transportation

14.5. Environmental hazards

Mixture is not classified for transportation

14.6. Special precautions for user

Mixture is not classified for transportation

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This mixture is classified in accordance with directive 1999/45/EC and regulation 1272/2008. The product is to be labelled in accordance with regulation 1272/2008

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been undertaken for this mixture

SECTION 16: Other information

Reason for SDS revision

Product identifiers updated section 1.1

Phys/chem data updated section 9.1

CLP substance information updated section 3.2

Classifications assigned to hazardous components that do not carry to final product classification

Acute Tox 4 (oral). H302 – Harmful if swallowed

Skin Irrit. 2. H315 - Causes skin irritation.

Eye irrit.2. H319 - Causes serious eye irritation.

Abbreviations used throughout the text

Acute Tox. 4 Acute Toxicity (Oral) category 4

Eye Irrit. 2 Eye Irritation category 2

LD50 Lethal Concentration/Lethal Concentration 50%

PBT Persistent, Bioaccumulative and Toxic

Skin Irrit. 2 Skin Irritation category 2

vPvB vPvT: very Persistent and very Toxic

(EC) No 1907/2006; REACH regulations

(EC) No 1272/2008; Classification, labelling and packaging of substances and mixtures
67/548/EEC; Dangerous substances directive

1999/45/EC; Dangerous preparations directive

IARC; International Agency for Research on Cancer

MARPOL 73/78; International convention for the prevention of pollution from ships

Legal disclaimer; Use of the product for applications other than those stated may give rise to risks not mentioned in this sheet.